MALDIVES ENERGY AUTHORITY

MALÉ, REPUBLIC OF MALDIVES

ދިވެހިރާජ އެނަރجީ އޮথॉرِٹِی

މާލެ، ދިވެހިރާއްޖެ

Guideline for Power Systems Approval:

ކަންބެހެއްވުން: ބަދަން ތަރުތީބުން ބަލައިގެން ވާހަކަ

Following information needs to be provided for the approval:	ކަންބެހެއްވުން ތަފުސީލުން ބަލައިގެން ހުށަހެޅުން ބޭނުންވާ ކަންކަން:
1. Generation system:	1. **ބަދަން ތަރުތީބުގެ ސިސްޓަމް:**
a) Site Layout or Facility Layout – showing immediate surrounding.	(ހ) ސައިޓް ލޭއުއެޓް ނުވަތަ ފެسِلِٹِی ލޭއުއެޓް – ވަކިން ދިމާވާ ކުރިއަށް ފެންނަން ވާން.
b) Powerhouse Floor Plan – showing major equipment and dimensions.	(ށ) ބަދަން ހައުސްގެ ފ्लोއާ پ्लॅن – ބޮޑު ބާވަތުތަކާ ދިގުދެމެން ދައްކަން.
c) Powerhouse Sectional view – showing major equipment and dimensions.	(ނ) ބަދަން ހައުސްގެ ސެކْشَن ویو – ބޮޑु ބާވَتُتَکَا دِگُدِمَن دَءْکَن.
d) Technical Specification of Generating sets and associated plant.	(ބ) ژenerating ژsets އާ ގުޅިގެން ވާ ކަންކަން ތަފْسِیلْ ކުރެވِژِتَا ژَشَن.
2. Generator Control Panel and Distribution Panel:	2. **ژenerator ژControl ژPanel އާ ژDistribution ژPanel:**
a) Single line diagram of the Panels.	(ހ) ژPanel ژs ގެ ژsingle ژline ژdiagram.
b) Panel Load Calculation.	(ށ) ژPanel ژLoad ژCalculation.
3. Fuel System:	3. **ژFuel ژSystem:**
a) Fuel system layout (fuel storage & fuel handling system) – single line diagram.	(ހ) ژFuel ژsystem ژlayout (ژfuel ژstorage އާ ژfuel ژhandling ژsystem) – ژsingle ژline ژdiagram.
b) Type of Fuel and its specification	(ށ) ژFuel ژtype ژof ژFuel ژand ژits ژspecification.
c) Day tank and bulk tank capacities.	(ނ) ژDay ژtank ژand ژbulk ژtank ژcapacities.
4. Distribution Network:	4. **ژDistribution ژNetwork:**
a) Layout of Distribution Network; Substations, Distribution boxes and service cables on a scaled diagram.	(ހ) ژDistribution ژNetwork ژlayout; ژsubstations, ژDistribution ژboxes ژand ژservice ژcables ژon ژa ژscaled ژdiagram.
b) Single line diagram of distribution panels above 60A.	(ށ) 60A ژDistribution ژpanels ژabove ژ60A ژsingle ژline ژdiagram.

c) Single line diagram of distribution boxes.	(س) ڊسٽري بيوٽ ڊائيگرامز ڪنيکشن ڊبن جي سنگل لائن ڊائيگرام.
d) Load forecast for the network.	(ر) نيٽ ورڪ لاءِ لوڊ فورڪاسٽ.
e) Voltage drop calculation and Network loss on each feeder.	(ه) وولٽيج ڊراپ ڪيلڪيوليشن ۽ نيٽ ورڪ لاسز هر فيڊر تي.
5. Electric Cable:	**5. بجلي جي ڪيبل:**
a) Technical specification of the cables used for transmission, distribution and electrical installations.	(ر) ٽيڪنيڪل اسپيسيفڪيشن، ڊسٽري بيوٽ ڊائيگرامز هيٺ بجلي جي ڪيبلن لاءِ ٽرانسميشن، تقسيم ۽ بجلي جي انسٽاليشنز.
b) International conformity certification for the cables. (If not approved by MEA).	(س) ڪيبلن لاءِ بين الاقواميت جي سرٽيفڪيٽ. (جيڪڏهن MEA طرفان منظور نه آهي).
6. Fire Fighting System and lightning Protection:	**6. باهه وسائڻ جو سسٽم ۽ بجلي کان بچاءُ:**
a) Certification or reference of approval fire fighting system from relevant government agency.	(ر) سرڪاري ايجنسيءَ طرفان باهه وسائڻ جو سسٽم منظور ٿيڻ جو سرٽيفڪيٽ يا حوالو.
b) Lightning Protection designs to be approved by MEA.	(س) بجلي کان بچاءُ جو ڊيزائن MEA طرفان منظور ٿيڻ گهرجي.
7. Environmental Impact Assessment of the generation facility:	**7. توانائي پيدا ڪرڻ واري سهولت جو ماحولياتي اثر جائزو:**
a) Certification or reference of approval from relevant Government agency.	(ر) ماحولياتي اثر جائزو سرڪاري ايجنسيءَ طرفان منظور ٿيڻ جو سرٽيفڪيٽ.
8. Tariff:	**8. ٽيرف:**
a) Estimated Capital Costs (in detail).	(ر) اندازي مطابق رقم (تفصيلي).
b) Income & Expenditure projections for over 10years.	(س) 10 سال کان وڌيڪ آمدني ۽ خرچ.
c) Electricity Demand forecast for over 10 years.	(ت) 10 سال کان وڌيڪ بجلي جي طلب.
d) Proposed tariff for over 10 years.	(ه) 10 سال کان وڌيڪ ٽيرف.

9. Rules and regulations of Powerhouse for consumers:	9. ބިން ސެންٹަރ ބާވަން ކުންފުންގެ ހިންދުންތައް ބަންދުކުރުން
a) Draft rules and regulations of services to consumers.	(ހ) ބިން ސެންٹަރ ބާވަން ކުންފުންގެ ހިންދުންތައް ބަންދުކުރުގެ ڤަރژަން.
NOTE:	***ނޯٹ:***
• ***ALL documents submitted under items 1, 2, 3 & 4 should be verified by MEA licensed Power Engineer (Name, Signature and License Number should appear on verified documents).***	• ބަބިއަށް 1، 2، 3، ބަދިއ 4 ގެ ދަންނަން ހުންނަން ވާންވާ ڊޮکިއۭންٹެން ހުންނަންވާ ބިން ބާވަން ކުންފުންގެ ލައިސަންސް ؤންނަން ވާންވާ ބިން ސެންٹަރ ބާވަން ؤންނަ ؤންނ ؤންނ ؤ ؤ ؤ